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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/520,722	12/01/2005	Marc Stephan	175.8156USU	9734
7590 07/02/2008 Paul D Greeley			EXAMINER	
Ohlandt Greeley Ruggiero & Perle			LEUNG, PHILIP H	
One Landmarl	k Square		ART UNIT	PAPER NUMBER
Stamford, CT 06901-2682			3742	
			MAIL DATE	DELIVERY MODE
			07/02/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/520,722 STEPHAN ET AL. Office Action Summary Examiner Art Unit PHILIP H. LEUNG 3742 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 4-22-2008. 2a) ☐ This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-21 is/are pending in the application. 4a) Of the above claim(s) 11-21 is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 1-10 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10)⊠ The drawing(s) filed on <u>07 January 2005</u> is/are: a)⊠ accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.

1) Notice of References Cited (PTO-892)

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)

Paper No(s)/Mail Date 1-7-2005 & 12-1-2005.

Attachment(s)

Interview Summary (PTO-413)
 Paper No(s)/Mail Date.

6) Other:

Notice of Informal Patent Application

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DETAILED ACTION

1. Applicant's election without traverse of Group I, claims 1-10 in the reply filed on 4-22-

2008 is acknowledged.

2. Although claim 11 has been amended to include the method of claim 1, the restriction is

still applicable as the patentability of the article of claims 11-21 depends on the structure claimed

in the claims but not on the method of claim 1 in the preamble. That is, the determination of the

patentability of claims 11-21 is independent of the method of claim 1. As a result, the restriction

between Group I, claims 1-10 and Group II, claims 11-21 set forth in the previous Office action

is still proper and made Final. Claims 11-21 are therefore withdrawn from further consideration

pursuant to 37 CFR 1.142(b) as being drawn to a nonelected species, there being no allowable

generic or linking claim. Election was made without traverse in the reply filed on 4-22-2008.

The drawings filed on 1-7-2005 are acceptable.

4. The title of the invention is not descriptive. A new title is required that is clearly

indicative of the invention to which the claims are directed.

The title should be amended to reflect only the claimed method.

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The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all
obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

 Claims 1-10 are rejected under 35 U.S.C. 103(a) as being obvious over Hirao et al (JP 11-157939), in view of Bhaduri et al (US 2002/0106611 A1).

Hirao shows a method of manufacturing ceramic parts with microwave sintering a material being built from a primary material such as silicon nitride and with a secondary material, auxiliary agent such as aluminum oxide, yttrium oxide. It does not explicitly show the wavelength and the power of the microwave energy used. Bhaduri shows a microwave sintering of dental parts with a frequency of 2.45 GHz. (i. e. a wavelength of about 12.5 cm) and the power is about 1.0 – 2.5 kw (see Figures 1-14, the abstract and paragraphs [0013] and [0032]-[0040]). It would have been obvious to an ordinary skill in the art at the time of invention to modify Hirao to determine the exact frequency and power for microwave sintering dental parts in view of the teaching of Bhaduri through routine experimentation depending on the size and type of load to be heated in order to achieve optimal heating.

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7. Apte et al (US 5,874,377) is further cited to show the use of 2.45 GHz microwave energy

for sintering ceramics and Prasad (US 6,325,839) is cited to show the use of microwave sintering

of dental restorations.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Philip H. Leung whose telephone number is (571) 272-4782.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tu Hoang can be reached on (571)-272-4780. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Philip H Leung/ Primary Examiner, Art Unit 3742

P.Leung/pl 6-30-2008